

| | | | |
|---------------------------------|-----------|------------------------------------|----------------|
| PONAPE ISLAND | KA | Latitude = 6.97 N | WMO No. 913480 |
| Longitude = 158.22 E | | Elevation = 151 feet | |
| Period of Record = 1973 to 1996 | | Average Pressure = 29.61 inches Hg | |

Design Criteria Data

| Dry Bulb Temperature (T) | Design Value (°F) | Mean Coincident (Average) Values | | | |
|--|--------------------------------|----------------------------------|----------------------------|------------------------|--------------------------------|
| | | Wet Bulb Temperature (°F) | Humidity Ratio (gr/lb) | Wind Speed (mph) | Prevailing Direction (NSEW) |
| Median of Extreme Highs | 90 | 80 | 142 | 6.7 | W |
| 0.4% Occurrence | 89 | 79 | 139 | 6.8 | E |
| 1.0% Occurrence | 88 | 79 | 138 | 7.0 | E |
| 2.0% Occurrence | 88 | 79 | 138 | 7.0 | E |
| Mean Daily Range | 8 | - | - | - | - |
| 97.5% Occurrence | 74 | 74 | 125 | 4.4 | SSE |
| 99.0% Occurrence | 73 | 73 | 121 | 4.3 | SE |
| 99.6% Occurrence | 73 | 73 | 121 | 4.3 | SE |
| Median of Extreme Lows | 71 | 71 | 113 | 4.5 | SSE |
| Wet Bulb Temperature (T_{wb}) | Design Value (°F) | Mean Coincident (Average) Values | | | |
| | | Dry Bulb Temperature (°F) | Humidity Ratio (gr/lb) | Wind Speed (mph) | Prevailing Direction (NSEW) |
| Median of Extreme Highs | 84 | 89 | 167 | 6.6 | WNW |
| 0.4% Occurrence | 81 | 87 | 147 | 6.6 | E |
| 1.0% Occurrence | 81 | 87 | 147 | 6.6 | E |
| 2.0% Occurrence | 80 | 85 | 143 | 6.7 | E |
| Humidity Ratio (HR) | Design Value (gr/lb) | Mean Coincident (Average) Values | | | |
| | | Dry Bulb Temperature (°F) | Vapor Pressure (in. Hg) | Wind Speed (mph) | Prevailing Direction (NSEW) |
| Median of Extreme Highs | 180 | 89 | 1.17 | 5.8 | E |
| 0.4% Occurrence | 153 | 85 | 1.00 | 5.9 | E |
| 1.0% Occurrence | 152 | 85 | 1.00 | 6.2 | ENE |
| 2.0% Occurrence | 148 | 84 | 0.97 | 6.1 | E |
| Air Conditioning/ | | T ≥ 93°F | T ≥ 80°F | T _{wb} ≥ 73°F | T _{wb} ≥ 67°F |
| Humid Area Criteria | # of Hours | 0 | 3989 | 6241 | 6362 |

Other Site Data

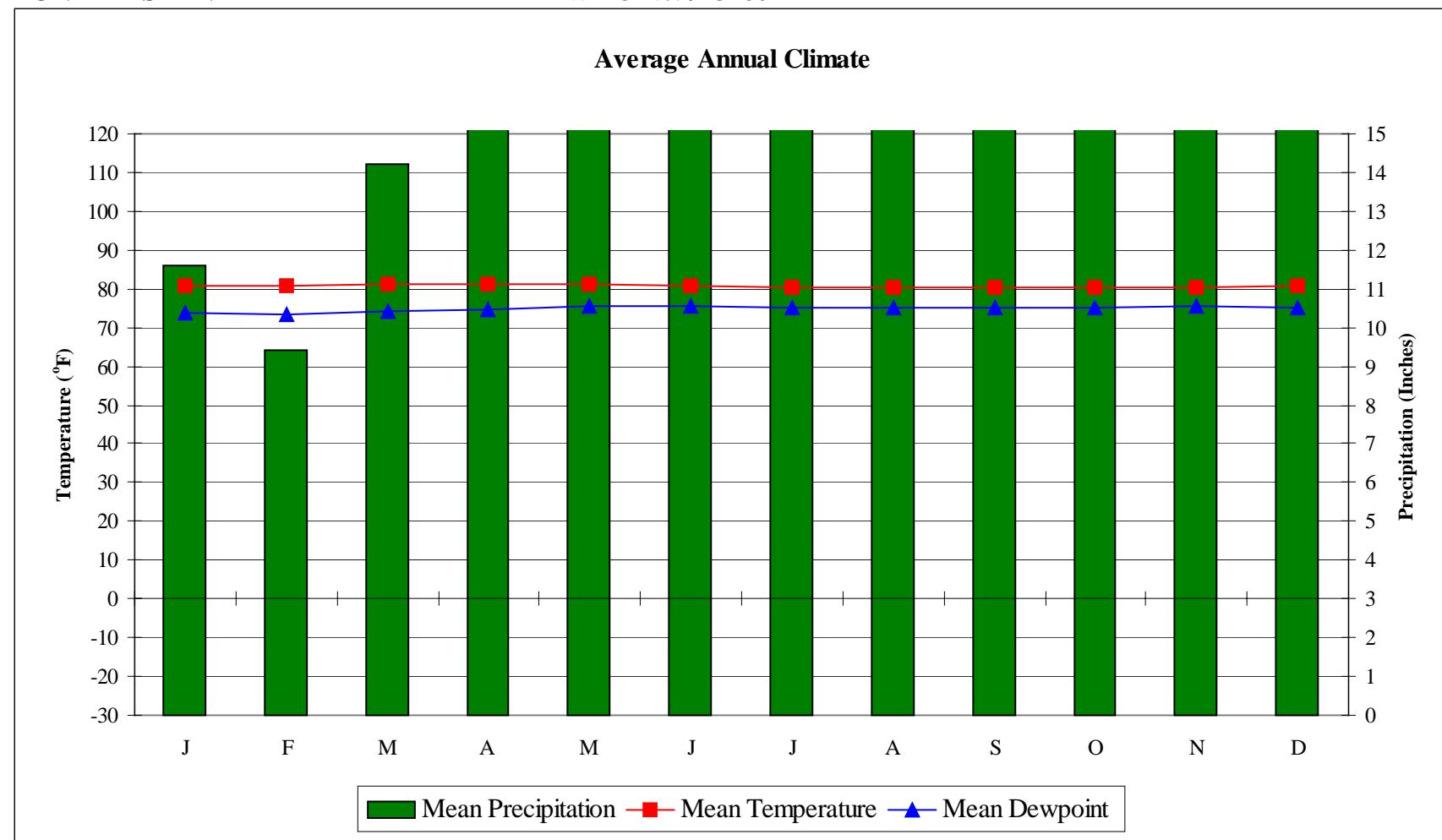
| Weather Region | Rain Rate 100 Year Recurrence (in./hr) | Basic Wind Speed 3 sec gust @ 33 ft 50 Year Recurrence (mph) | Ventilation Cooling Load Index (Ton-hr/cfm/yr) Base 75°F-RH 60% Latent + Sensible |
|--|--|--|---|
| 10 | N/A | N/A | 13.1 + 4.7 |
| Ground Water Temperature (°F) 50 Foot Depth * | Frost Depth 50 Year Recurrence (in.) | Ground Snow Load 50 Year Recurrence (lb/ft ²) | Average Annual Freeze-Thaw Cycles (#) |
| 83.2 | N/A | N/A | 0 |

*Note: Temperatures at greater depths can be estimated by adding 1.5°F per 100 feet additional depth.

PONAPE ISLAND

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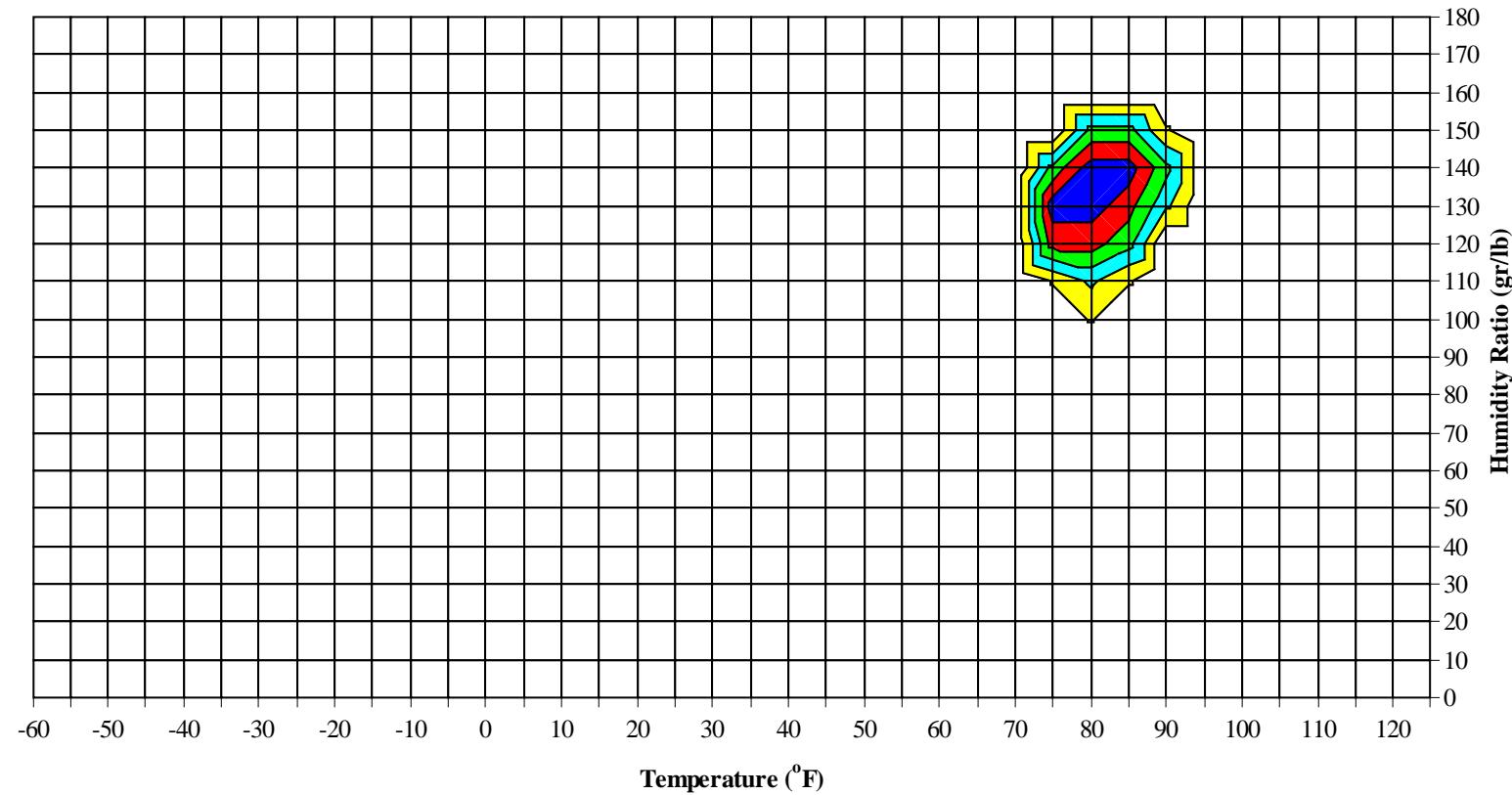


PONAPE ISLAND

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WMO No. 913480

Long Term Psychrometric Summary



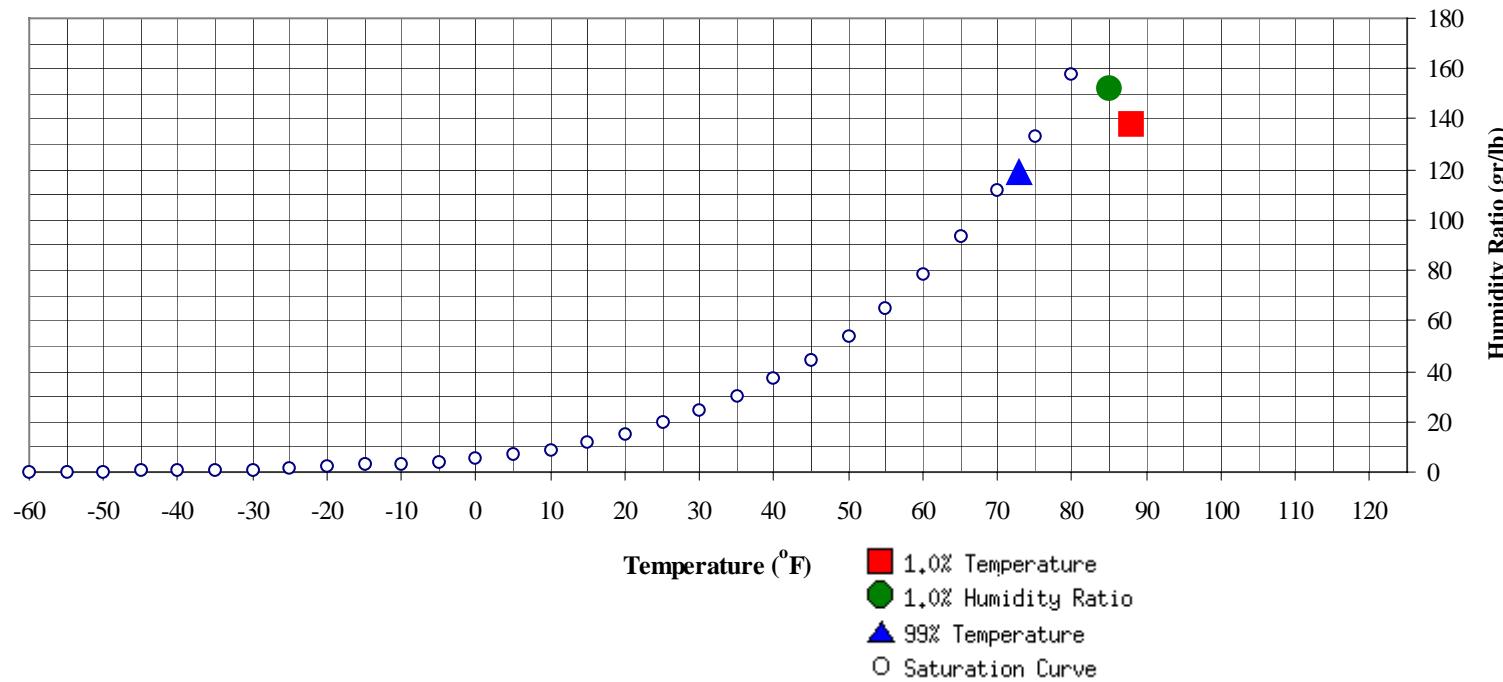
- 50% of all observations
- 80% of all observations
- 95% of all observations
- 97.5% of all observations
- 99% of all observations

PONAPE ISLAND

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Psychrometric Summary of Peak Design Values



| | MCHR (°F) | Enthalpy (btu/lb) | 1.0% Humidity Ratio | MCDB (°F) | MCWB (°F) | MC Dewpt (°F) | Enthalpy (btu/lb) |
|---------------------|--------------|----------------------|------------------------|--------------|--------------|------------------|----------------------|
| 99% Dry Bulb | 73 | 36.1 | | 151.9 | 85.1 | 80.5 | 44.3 |

| | MCHR (°F) | MCWB (°F) | Enthalpy (btu/lb) |
|----------------------|--------------|--------------|----------------------|
| 1.0% Dry Bulb | 88 | 79.3 | 42.8 |

PONAPE ISLAND KA

WMO No. 913480

Dry-Bulb Temperature Hours For An Average Year (Sheet 1 of 5)

Period of Record = 1973 to 1996

| Temperature Range (°F) | January | | | | | | February | | | | | | March | | | | | |
|---------------------------|------------------|----------|----------|-----------|--------------|------------------|----------|----------|-----------|--------------|------------------|----------|----------|-----------|--------------|-----|------|------|
| | Hour Group (LST) | | | Total Obs | M C W B (°F) | Hour Group (LST) | | | Total Obs | M C W B (°F) | Hour Group (LST) | | | Total Obs | M C W B (°F) | | | |
| | 01 To 08 | 09 To 16 | 17 To 00 | | | 01 To 08 | 09 To 16 | 17 To 00 | | | 01 To 08 | 09 To 16 | 17 To 00 | | | | | |
| | 01 To 08 | 09 To 16 | 17 To 00 | | | 01 To 08 | 09 To 16 | 17 To 00 | | | 01 To 08 | 09 To 16 | 17 To 00 | | | | | |
| 95 / 99 | | | | | | 0 | 0 | 0 | 77.7 | | | | | 1 | | 1 | 80.6 | |
| 90 / 94 | | | | | | 56 | 3 | 60 | 77.4 | | | | | 92 | 7 | 98 | 77.8 | |
| 85 / 89 | 0 | 54 | 2 | 56 | 77.7 | 56 | 3 | 60 | 77.4 | | | | | 136 | 133 | 175 | 443 | 76.2 |
| 80 / 84 | 125 | 166 | 172 | 463 | 76.1 | 100 | 152 | 159 | 75.8 | | | | | 99 | 22 | 63 | 185 | 75.2 |
| 75 / 79 | 113 | 27 | 71 | 211 | 75.0 | 113 | 16 | 58 | 74.8 | | | | | 13 | 1 | 3 | 17 | 72.2 |
| 70 / 74 | 10 | 1 | 3 | 14 | 72.1 | 11 | 0 | 3 | 72.1 | | | | | 0 | 0 | | 0 | 64.0 |
| 65 / 69 | | 0 | | 0 | | | | | | | | | | | | | | |

Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

PONAPE ISLAND KA

WMO No. 913480

Dry-Bulb Temperature Hours For An Average Year (Sheet 2 of 5)

Period of Record = 1973 to 1996

| Temperature Range (°F) | April | | | | | | May | | | | | | June | | | | | |
|---------------------------|------------------|----------|----------|-----------|--------------|------------------|----------|----------|-----------|--------------|------------------|----------|----------|-----------|--------------|---|------|--|
| | Hour Group (LST) | | | Total Obs | M C W B (°F) | Hour Group (LST) | | | Total Obs | M C W B (°F) | Hour Group (LST) | | | Total Obs | M C W B (°F) | | | |
| | 01 To 08 | 09 To 16 | 17 To 00 | | | 01 To 08 | 09 To 16 | 17 To 00 | | | 01 To 08 | 09 To 16 | 17 To 00 | | | | | |
| | 01 To 08 | 09 To 16 | 17 To 00 | | | 01 To 08 | 09 To 16 | 17 To 00 | | | 01 To 08 | 09 To 16 | 17 To 00 | | | | | |
| 95 / 99 | | | | | | | | | | | | | | | 0 | | 0 | |
| 90 / 94 | | 0 | | 0 | 81.3 | | | 1 | | 1 | 80.3 | | 0 | 1 | | 1 | 79.6 | |
| 85 / 89 | 0 | 114 | 7 | 120 | 78.0 | 0 | 125 | 9 | 134 | 78.7 | 1 | 113 | 8 | 123 | 78.9 | | | |
| 80 / 84 | 119 | 101 | 156 | 375 | 76.7 | 112 | 91 | 150 | 353 | 77.2 | 83 | 94 | 120 | 296 | 77.4 | | | |
| 75 / 79 | 110 | 26 | 74 | 210 | 75.5 | 125 | 30 | 86 | 241 | 75.6 | 134 | 32 | 108 | 274 | 75.5 | | | |
| 70 / 74 | 12 | 0 | 3 | 15 | 72.7 | 11 | 1 | 2 | 15 | 72.9 | 21 | 1 | 3 | 26 | 72.6 | | | |
| 65 / 69 | | | | | | | | | | | 0 | | | 0 | 57.0 | | | |

Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

PONAPE ISLAND KA

WMO No. 913480

Dry-Bulb Temperature Hours For An Average Year (Sheet 3 of 5)

Period of Record = 1973 to 1996

| Temperature Range (°F) | July | | | | | | August | | | | | | September | | | | | |
|---------------------------|------------------|----------|----------|-----------|--------------|------------------|----------|----------|-----------|--------------|------------------|----------|-----------|-----------|--------------|--|--|--|
| | Hour Group (LST) | | | Total Obs | M C W B (°F) | Hour Group (LST) | | | Total Obs | M C W B (°F) | Hour Group (LST) | | | Total Obs | M C W B (°F) | | | |
| | 01 To 08 | 09 To 16 | 17 To 00 | | | 01 To 08 | 09 To 16 | 17 To 00 | | | 01 To 08 | 09 To 16 | 17 To 00 | | | | | |
| | 08 | 16 | 00 | | | 08 | 16 | 00 | | | 08 | 16 | 00 | | | | | |
| 95 / 99 | | | | | | | | | | | | | | | | | | |
| 90 / 94 | | 3 | 0 | 3 | 80.4 | | 5 | 0 | 5 | 80.8 | | 6 | 0 | 6 | 80.6 | | | |
| 85 / 89 | 0 | 124 | 13 | 138 | 78.7 | 1 | 131 | 15 | 148 | 78.9 | 0 | 126 | 14 | 140 | 78.8 | | | |
| 80 / 84 | 45 | 89 | 92 | 226 | 77.4 | 29 | 79 | 80 | 189 | 77.5 | 35 | 80 | 75 | 190 | 77.4 | | | |
| 75 / 79 | 163 | 30 | 132 | 326 | 75.3 | 173 | 30 | 143 | 347 | 75.3 | 156 | 28 | 140 | 324 | 75.2 | | | |
| 70 / 74 | 39 | 2 | 11 | 52 | 72.6 | 44 | 3 | 9 | 56 | 72.8 | 49 | 1 | 10 | 60 | 72.5 | | | |
| 65 / 69 | | | 0 | 0 | | | | | | | | | | | | | | |

Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

PONAPE ISLAND KA

WMO No. 913480

Dry-Bulb Temperature Hours For An Average Year (Sheet 4 of 5)

Period of Record = 1973 to 1996

| Temperature Range (°F) | October | | | | | | November | | | | | | December | | | | | |
|---------------------------|------------------|----------|----------|-----------|--------------|------------------|----------|----------|-----------|--------------|------------------|----------|----------|-----------|--------------|--|--|--|
| | Hour Group (LST) | | | Total Obs | M C W B (°F) | Hour Group (LST) | | | Total Obs | M C W B (°F) | Hour Group (LST) | | | Total Obs | M C W B (°F) | | | |
| | 01 To 08 | 09 To 16 | 17 To 00 | | | 01 To 08 | 09 To 16 | 17 To 00 | | | 01 To 08 | 09 To 16 | 17 To 00 | | | | | |
| | 08 | 16 | 00 | | | 08 | 16 | 00 | | | 08 | 16 | 00 | | | | | |
| 95 / 99 | | | | | | | | | | | | | | | | | | |
| 90 / 94 | 0 | 7 | 0 | 7 | 80.5 | | 5 | | 5 | 80.7 | | 1 | 0 | 1 | 80.1 | | | |
| 85 / 89 | 0 | 131 | 13 | 144 | 78.9 | 0 | 121 | 9 | 130 | 78.9 | 0 | 95 | 5 | 100 | 78.6 | | | |
| 80 / 84 | 35 | 79 | 75 | 189 | 77.5 | 53 | 87 | 99 | 239 | 77.5 | 106 | 126 | 156 | 389 | 76.9 | | | |
| 75 / 79 | 168 | 31 | 150 | 349 | 75.3 | 159 | 26 | 126 | 311 | 75.5 | 125 | 26 | 83 | 234 | 75.6 | | | |
| 70 / 74 | 45 | 1 | 10 | 56 | 72.7 | 28 | 1 | 6 | 35 | 72.6 | 16 | 0 | 3 | 20 | 72.5 | | | |
| 65 / 69 | | | | | | 0 | | 0 | | | | | | | | | | |

Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

PONAPE ISLAND KA WMO No. 913480
Dry-Bulb Temperature Hours For An Average Year (Sheet 5 of 5)
Period of Record = 1973 to 1996

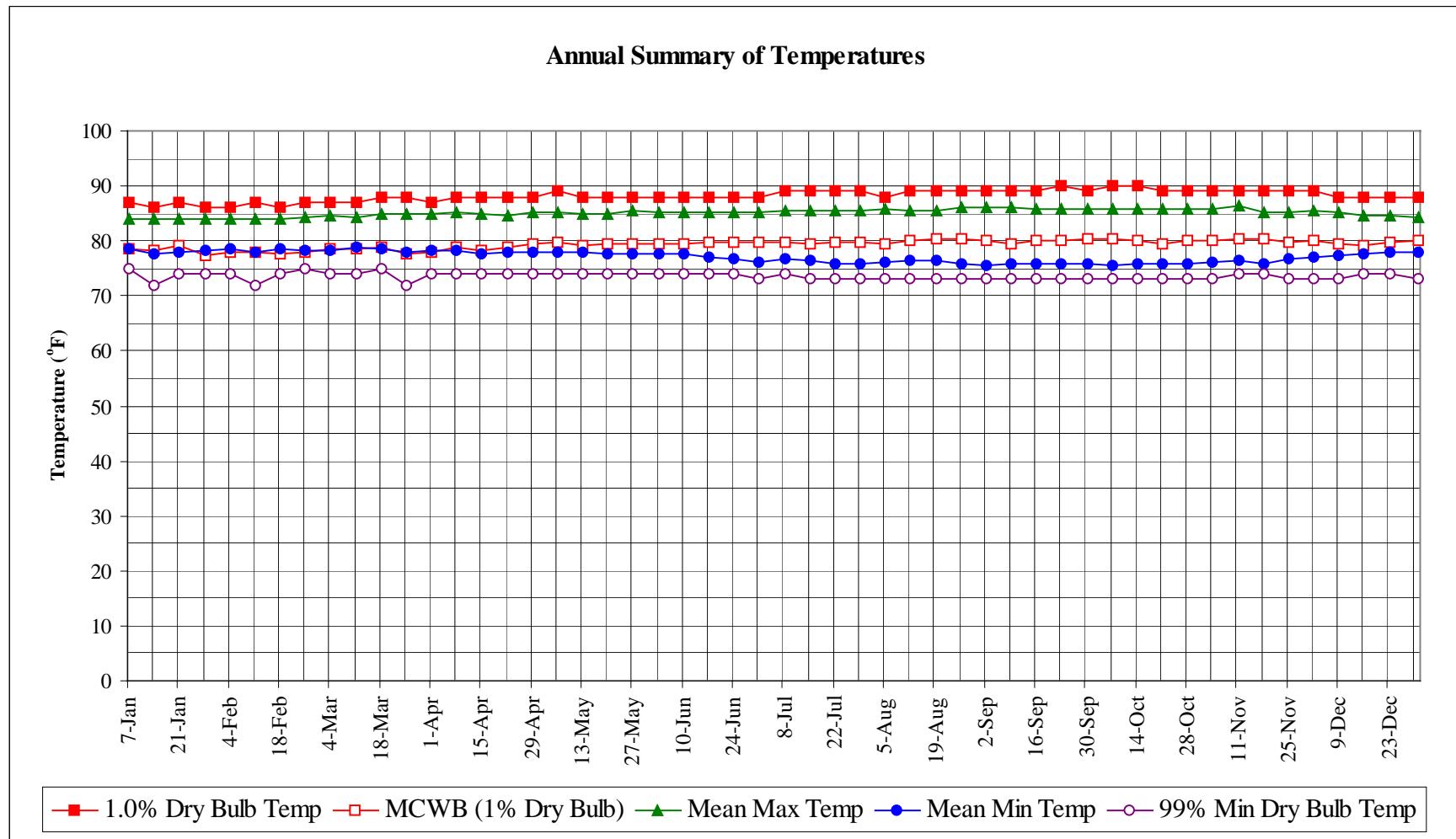
| Temperature Range (°F) | Annual Totals | | | | | |
|---------------------------|------------------|----------------|----------------|-----------|------|---|
| | Hour Group (LST) | | | Total Obs | M | C |
| | 01 To 08 | 09 To 16 | 17 To 00 | | W | B |
| 95 / 99 | | 0 | | 0 | | |
| 90 / 94 | 0 | 28 | 1 | 28 | 80.5 | |
| 85 / 89 | 6 | 1277 | 105 | 1387 | 78.6 | |
| 80 / 84 | 982 | 1282 | 1521 | 3784 | 76.8 | |
| 75 / 79 | 1632 | 324 | 1225 | 3181 | 75.3 | |
| 70 / 74 | 300 | 10 | 69 | 379 | 72.6 | |
| 65 / 69 | 0 | 0 | 0 | 0 | 60.5 | |

Caution: This summary reflects the typical distribution of temperature in a typical year. It does not reflect the typical moisture distribution. Because wet bulb temperatures are averaged, this summary understates the annual moisture load. For accurate moisture load data, see the long-term humidity summary and the ventilation and infiltration load pages in this manual.

PONAPE ISLAND

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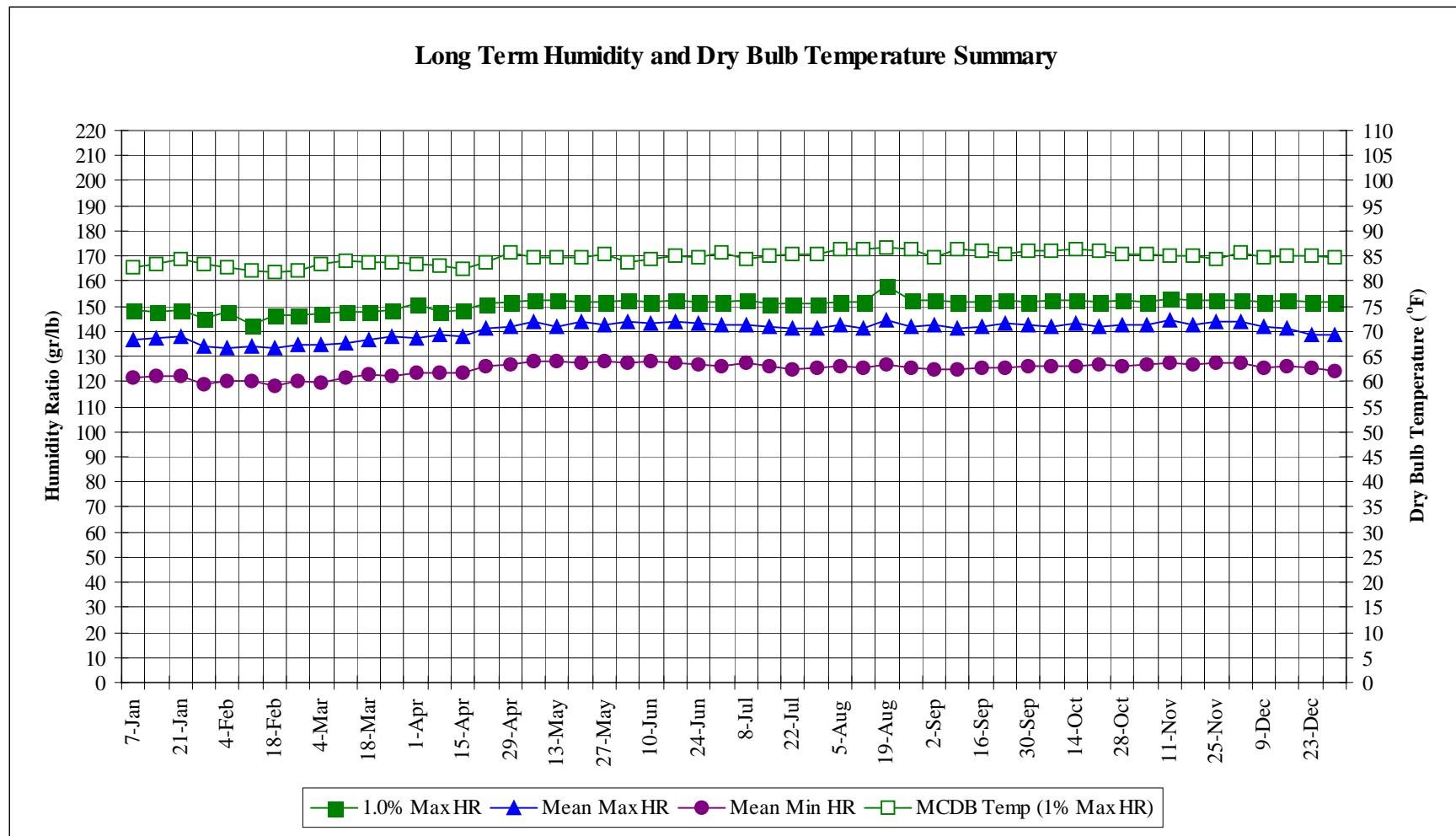
WMO No. 913480



PONAPE ISLAND

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WMO No. 913480



PONAPE ISLAND**KA**

WMO No. 913480

Long Term Dry Bulb Temperature and Humidity Summary

| Week Ending | 1.0% Temp (°F) | MCWB @ 1% Temp (°F) | Mean Max Temp (°F) | Mean Min Temp (°F) | 99% Temp (°F) | 1.0% HR (gr/lb) | MCDB @ 1% HR (°F) | Mean Max HR (gr/lb) | Mean Min HR (gr/lb) |
|-------------|----------------|---------------------|--------------------|--------------------|---------------|-----------------|-------------------|---------------------|---------------------|
| 7-Jan | 87.0 | 78.5 | 84.0 | 78.7 | 75.0 | 148.4 | 82.8 | 136.4 | 121.3 |
| 14-Jan | 86.0 | 78.3 | 84.1 | 77.5 | 72.0 | 147.7 | 83.4 | 136.9 | 122.2 |
| 21-Jan | 87.0 | 79.2 | 84.0 | 78.0 | 74.0 | 148.4 | 84.5 | 137.8 | 122.1 |
| 28-Jan | 86.0 | 77.4 | 84.0 | 78.3 | 74.0 | 144.9 | 83.3 | 133.9 | 118.7 |
| 4-Feb | 86.0 | 77.8 | 84.0 | 78.4 | 74.0 | 147.7 | 82.9 | 133.1 | 120.1 |
| 11-Feb | 87.0 | 78.0 | 84.0 | 78.1 | 72.0 | 142.8 | 82.0 | 134.1 | 119.9 |
| 18-Feb | 86.0 | 77.6 | 83.9 | 78.4 | 74.0 | 146.3 | 81.9 | 133.3 | 118.5 |
| 25-Feb | 87.0 | 78.0 | 84.4 | 78.2 | 75.0 | 146.3 | 82.2 | 134.3 | 120.2 |
| 4-Mar | 87.0 | 78.4 | 84.7 | 78.4 | 74.0 | 147.0 | 83.5 | 134.6 | 119.4 |
| 11-Mar | 87.0 | 78.6 | 84.4 | 78.8 | 74.0 | 147.7 | 84.0 | 135.0 | 121.6 |
| 18-Mar | 88.0 | 78.8 | 84.8 | 78.7 | 75.0 | 147.7 | 83.7 | 136.9 | 122.8 |
| 25-Mar | 88.0 | 77.8 | 84.9 | 78.0 | 72.0 | 148.4 | 83.9 | 137.8 | 122.3 |
| 1-Apr | 87.0 | 78.0 | 84.9 | 78.1 | 74.0 | 151.2 | 83.3 | 137.5 | 123.5 |
| 8-Apr | 88.0 | 78.8 | 85.1 | 78.1 | 74.0 | 147.7 | 83.1 | 138.5 | 123.6 |
| 15-Apr | 88.0 | 78.2 | 84.8 | 77.6 | 74.0 | 148.4 | 82.6 | 138.2 | 123.8 |
| 22-Apr | 88.0 | 79.0 | 84.5 | 78.0 | 74.0 | 151.2 | 83.6 | 140.9 | 125.8 |
| 29-Apr | 88.0 | 79.5 | 85.1 | 77.9 | 74.0 | 151.9 | 85.6 | 141.8 | 127.1 |
| 6-May | 89.0 | 79.9 | 85.3 | 77.9 | 74.0 | 152.6 | 84.8 | 143.6 | 128.3 |
| 13-May | 88.0 | 79.2 | 85.0 | 78.0 | 74.0 | 152.6 | 84.6 | 141.6 | 128.1 |
| 20-May | 88.0 | 79.4 | 85.0 | 77.6 | 74.0 | 151.9 | 84.6 | 143.9 | 127.5 |
| 27-May | 88.0 | 79.4 | 85.6 | 77.7 | 74.0 | 151.9 | 85.4 | 142.8 | 128.3 |
| 3-Jun | 88.0 | 79.5 | 85.2 | 77.5 | 74.0 | 152.6 | 83.6 | 144.1 | 127.7 |
| 10-Jun | 88.0 | 79.3 | 85.1 | 77.6 | 74.0 | 151.9 | 84.6 | 142.9 | 128.1 |
| 17-Jun | 88.0 | 79.8 | 85.3 | 77.1 | 74.0 | 152.6 | 85.2 | 143.8 | 127.3 |
| 24-Jun | 88.0 | 79.7 | 85.1 | 76.8 | 74.0 | 151.9 | 84.9 | 143.0 | 126.6 |
| 1-Jul | 88.0 | 79.7 | 85.3 | 76.0 | 73.0 | 151.9 | 85.7 | 142.6 | 125.9 |
| 8-Jul | 89.0 | 79.6 | 85.6 | 76.7 | 74.0 | 152.6 | 84.3 | 142.3 | 127.2 |
| 15-Jul | 89.0 | 79.3 | 85.6 | 76.4 | 73.0 | 151.2 | 85.1 | 141.8 | 126.3 |
| 22-Jul | 89.0 | 79.7 | 85.4 | 76.0 | 73.0 | 151.2 | 85.3 | 141.1 | 124.7 |
| 29-Jul | 89.0 | 79.7 | 85.5 | 75.9 | 73.0 | 151.2 | 85.2 | 141.4 | 125.2 |
| 5-Aug | 88.0 | 79.3 | 85.9 | 76.1 | 73.0 | 151.9 | 86.3 | 142.8 | 126.0 |
| 12-Aug | 89.0 | 79.9 | 85.5 | 76.6 | 73.0 | 151.9 | 86.5 | 141.3 | 125.6 |
| 19-Aug | 89.0 | 80.3 | 85.6 | 76.5 | 73.0 | 158.2 | 86.7 | 144.3 | 126.7 |
| 26-Aug | 89.0 | 80.4 | 86.0 | 75.9 | 73.0 | 152.6 | 86.3 | 142.0 | 125.5 |
| 2-Sep | 89.0 | 80.0 | 86.1 | 75.5 | 73.0 | 152.6 | 84.7 | 142.3 | 124.8 |
| 9-Sep | 89.0 | 79.5 | 86.0 | 75.7 | 73.0 | 151.9 | 86.2 | 141.0 | 124.8 |
| 16-Sep | 89.0 | 80.2 | 85.8 | 75.8 | 73.0 | 151.9 | 86.0 | 142.1 | 125.3 |
| 23-Sep | 90.0 | 80.0 | 85.7 | 75.8 | 73.0 | 152.6 | 85.3 | 143.1 | 125.2 |
| 30-Sep | 89.0 | 80.3 | 85.8 | 75.8 | 73.0 | 151.9 | 86.0 | 142.2 | 126.1 |
| 7-Oct | 90.0 | 80.3 | 85.7 | 75.6 | 73.0 | 152.6 | 85.9 | 142.1 | 126.0 |
| 14-Oct | 90.0 | 80.0 | 85.7 | 75.9 | 73.0 | 152.6 | 86.4 | 142.9 | 125.8 |
| 21-Oct | 89.0 | 79.4 | 85.9 | 76.0 | 73.0 | 151.9 | 86.0 | 142.1 | 126.6 |
| 28-Oct | 89.0 | 80.0 | 85.9 | 75.9 | 73.0 | 152.6 | 85.3 | 142.7 | 126.3 |
| 4-Nov | 89.0 | 80.0 | 85.7 | 76.1 | 73.0 | 151.9 | 85.3 | 142.8 | 126.6 |
| 11-Nov | 89.0 | 80.4 | 86.3 | 76.6 | 74.0 | 153.3 | 85.1 | 144.4 | 127.7 |
| 18-Nov | 89.0 | 80.4 | 85.3 | 75.9 | 74.0 | 152.6 | 85.0 | 142.8 | 126.6 |
| 25-Nov | 89.0 | 79.8 | 85.2 | 76.7 | 73.0 | 152.6 | 84.3 | 143.7 | 127.4 |
| 2-Dec | 89.0 | 80.1 | 85.5 | 77.1 | 73.0 | 152.6 | 85.8 | 144.0 | 127.1 |
| 9-Dec | 88.0 | 79.6 | 85.3 | 77.4 | 73.0 | 151.9 | 84.7 | 141.9 | 125.6 |
| 16-Dec | 88.0 | 79.1 | 84.5 | 77.7 | 74.0 | 152.6 | 84.9 | 141.2 | 125.8 |
| 23-Dec | 88.0 | 79.9 | 84.7 | 77.8 | 74.0 | 151.9 | 85.1 | 138.5 | 125.4 |
| 31-Dec | 88.0 | 80.0 | 84.4 | 77.9 | 73.0 | 151.9 | 84.7 | 138.9 | 124.0 |

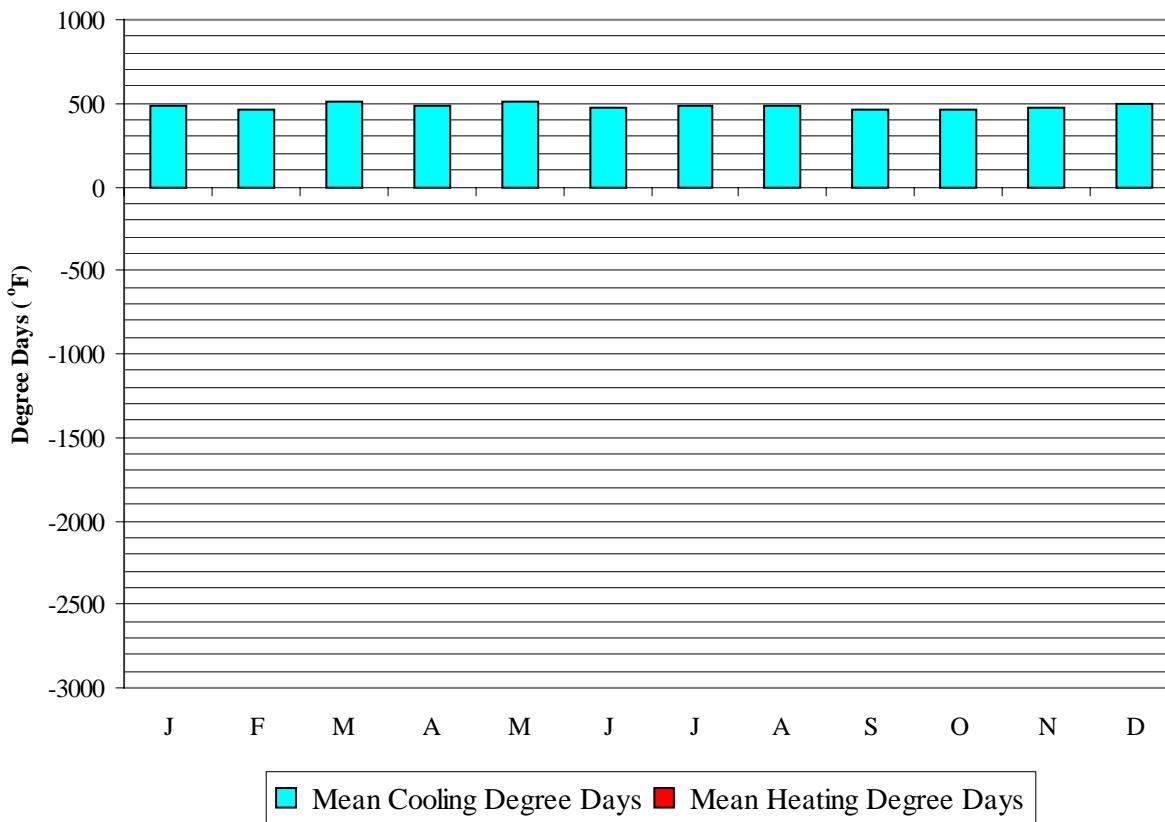
PONAPE ISLAND

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WMO No. 913480

Degree Days, Heating and Cooling

(Base 65°F)



Mean Cooling Degree Days Mean Heating Degree Days

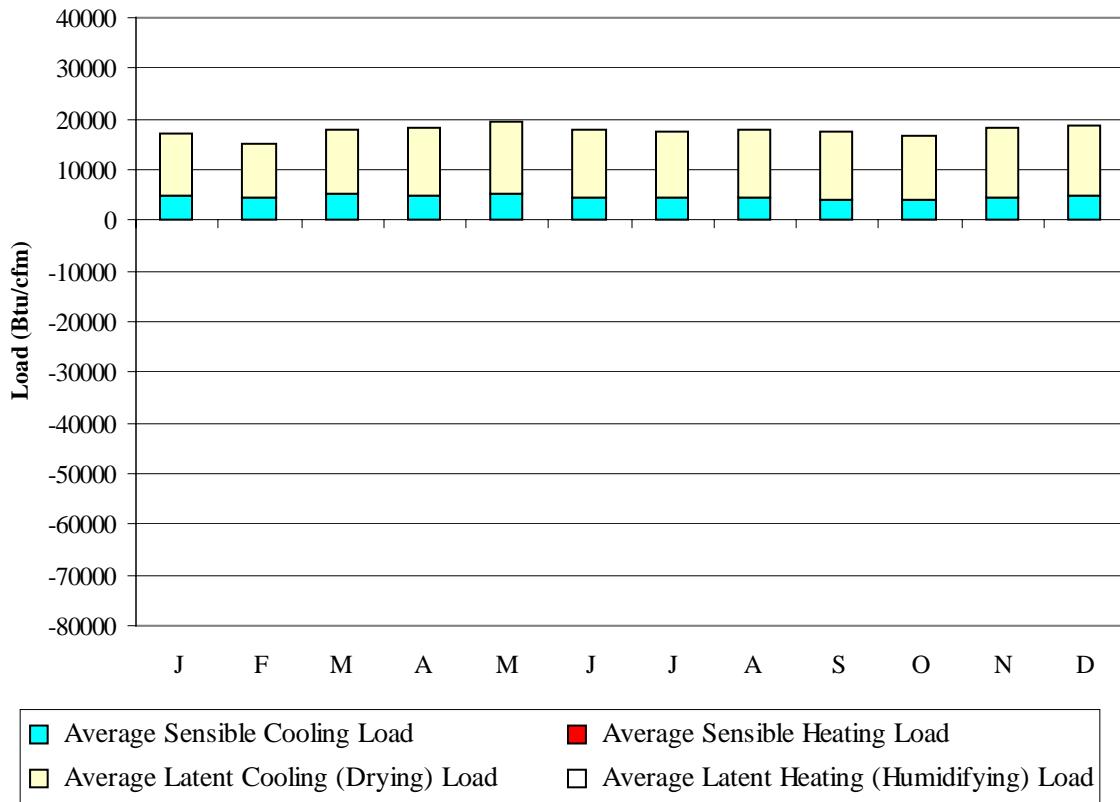
| | Mean Cooling Degree Days (°F) | Mean Heating Degree Days (°F) |
|-----|----------------------------------|----------------------------------|
| JAN | 491 | 0 |
| FEB | 456 | 0 |
| MAR | 510 | 0 |
| APR | 490 | 0 |
| MAY | 505 | 0 |
| JUN | 473 | 0 |
| JUL | 481 | 0 |
| AUG | 484 | 0 |
| SEP | 461 | 0 |
| OCT | 461 | 0 |
| NOV | 475 | 0 |
| DEC | 497 | 0 |
| ANN | 5783 | 0 |

PONAPE ISLAND

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WMO No. 913480

Average Ventilation and Infiltration Loads
(Outside Air vs. 75°F, 60% RH summer; 68°F, 30% RH winter)

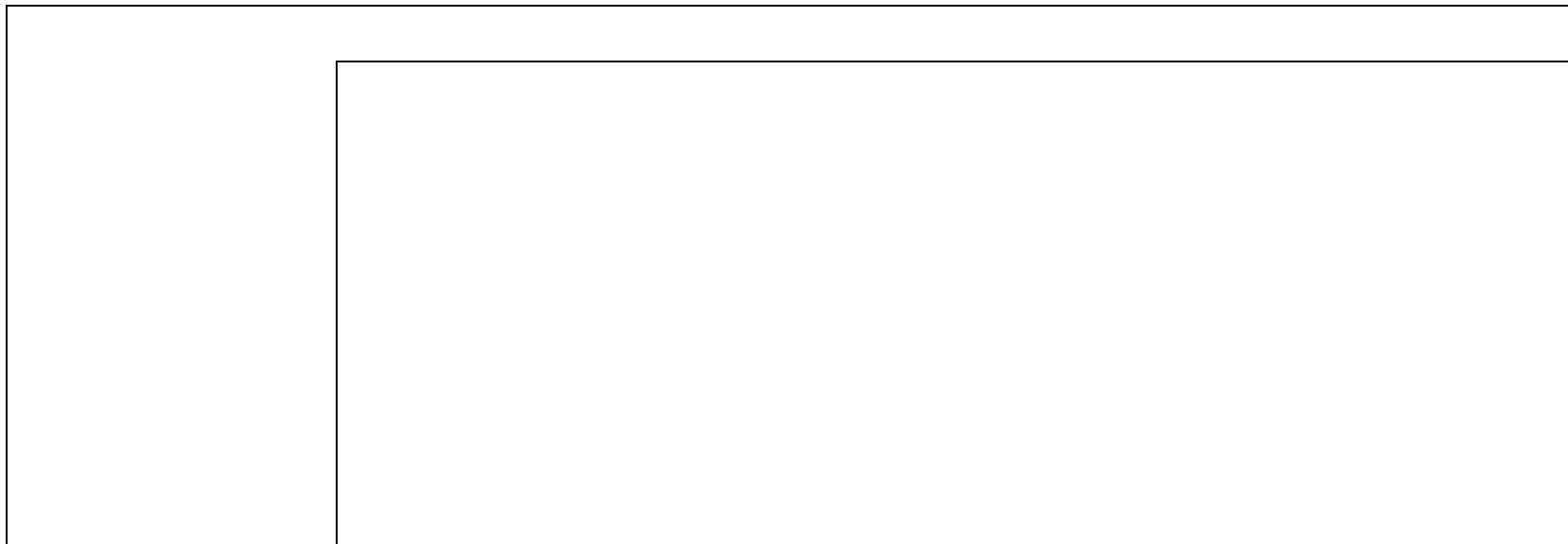


| | Average Sensible Cooling Load | Average Sensible Heating Load | Average Latent Cooling Load | Average Latent Heating Load |
|-----|----------------------------------|----------------------------------|--------------------------------|--------------------------------|
| | (Btu/cfm) | (Btu/cfm) | (Btu/cfm) | (Btu/cfm) |
| JAN | 4773 | 0 | 12484 | 0 |
| FEB | 4492 | 0 | 10742 | 0 |
| MAR | 5189 | 0 | 12706 | 0 |
| APR | 4924 | 0 | 13170 | 0 |
| MAY | 5093 | 0 | 14193 | 0 |
| JUN | 4567 | 0 | 13490 | 0 |
| JUL | 4503 | 0 | 13105 | 0 |
| AUG | 4555 | 0 | 13276 | 0 |
| SEP | 4242 | 0 | 13319 | 0 |
| OCT | 4235 | 0 | 12658 | 0 |
| NOV | 4500 | 0 | 13609 | 0 |
| DEC | 4922 | 0 | 13958 | 0 |
| ANN | 55995 | 0 | 156710 | 0 |

Average Annual Solar Radiation – Nearest Available Site

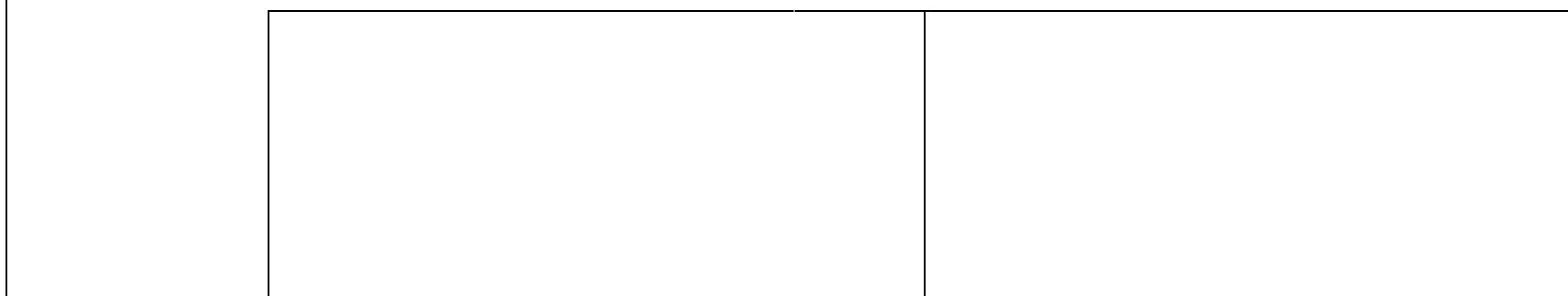
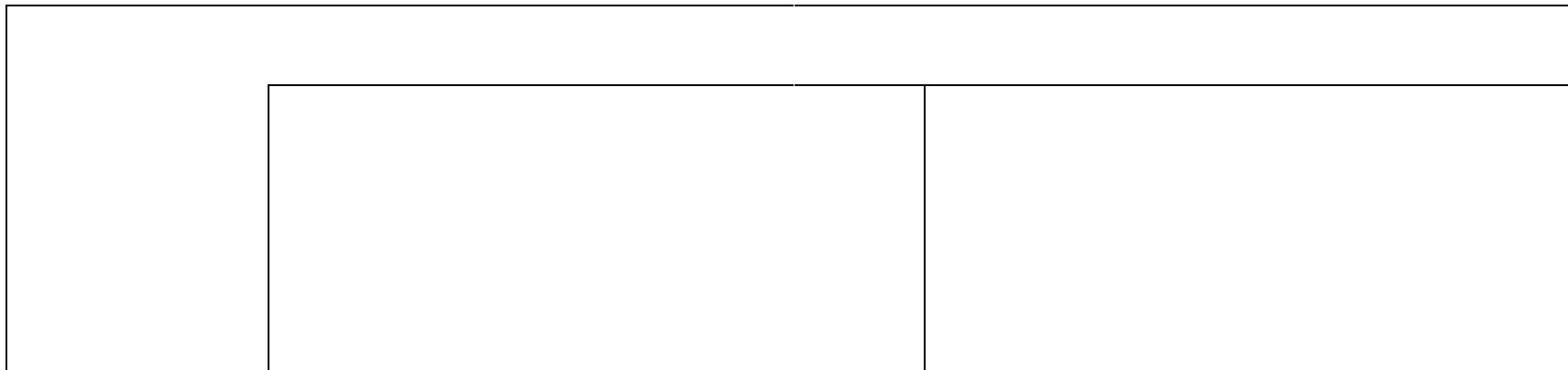
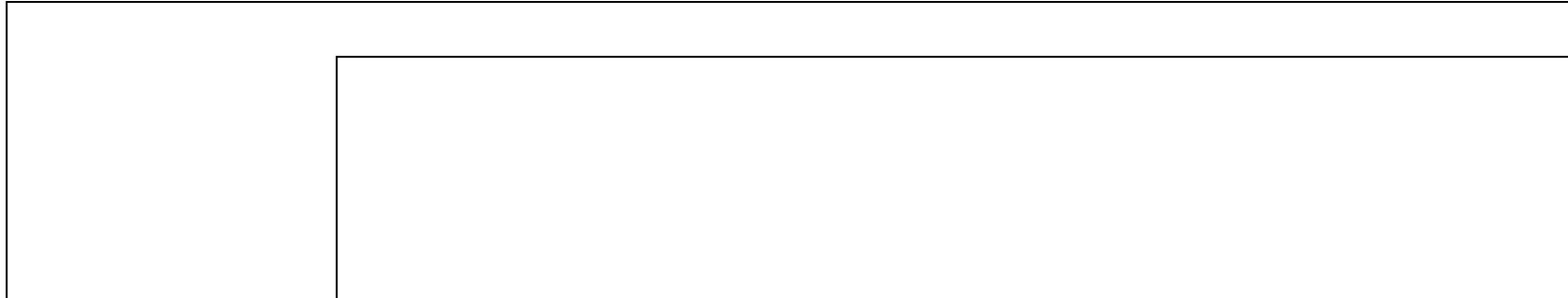
(Source: National Renewable Energy Laboratory, Golden CO, 1995)

No Solar Radiation
Data Available



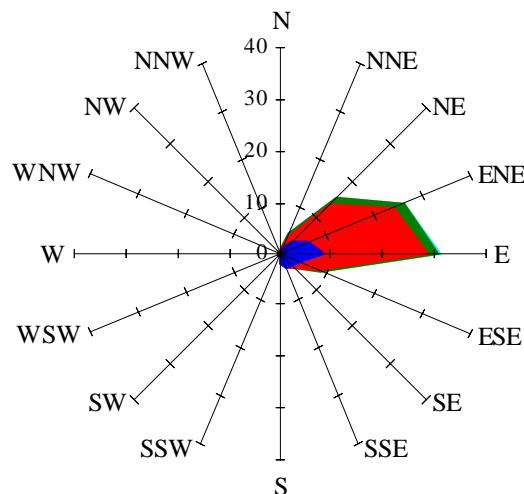
Average Annual Solar Heat and Illumination – Nearest Available Site

(Source: National Renewable Energy Laboratory, Golden CO, 1995)



Wind Summary - December, January, and February

Labels of Percent Frequency on North Axis

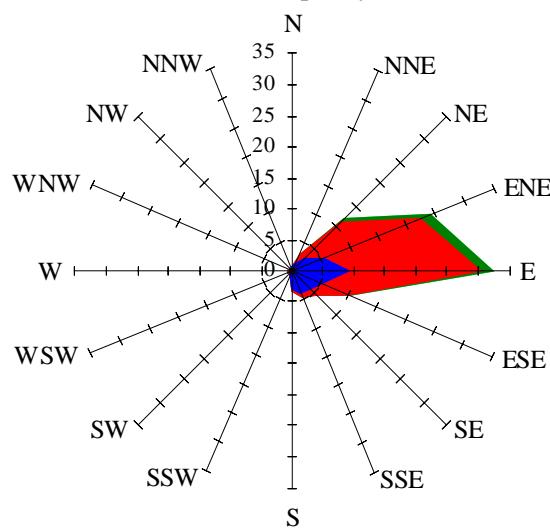


- >34 knots
- 25-34 knots
- 15-24 knots
- 6-14 knots
- 1-5 knots

Percent Calm = 1.25

Wind Summary - March, April, and May

Labels of Percent Frequency on North Axis

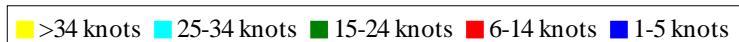
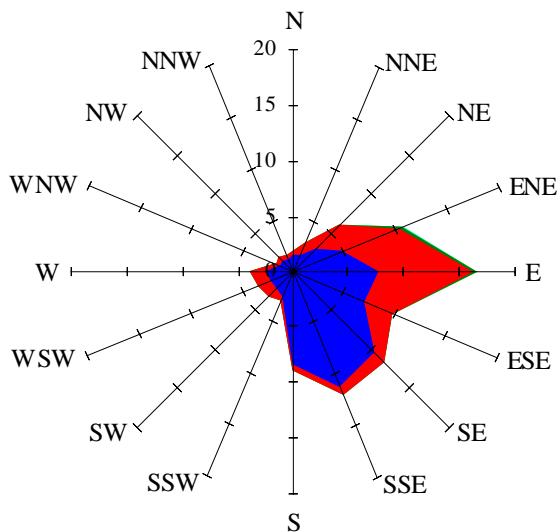


- >34 knots
- 25-34 knots
- 15-24 knots
- 6-14 knots
- 1-5 knots

Percent Calm = 1.59

Wind Summary - June, July, and August

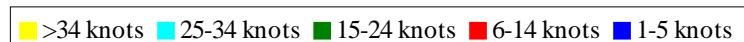
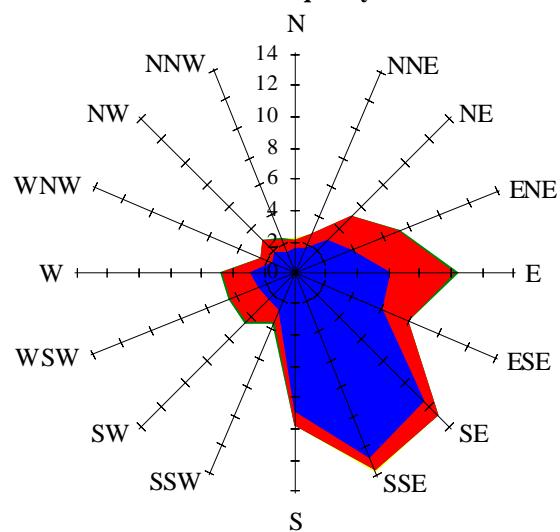
Labels of Percent Frequency on North Axis



Percent Calm = 2.72

Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



Percent Calm = 3.83